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ABSTRACT

In 1989, Midlands Technical College implemented a comprehensive student tracking and retention reporting system to provide data on first-time students beginning in fall 1988. Highlighted findings for 1988 through 1991 included the following: (1) the freshman to sophomore retention rate for the fall 1990 cohort was 53.8%, a 6.4% increase over the fall 1988 group; (2) the composition of the entering student cohort showed slight increases in the percentages of males, non-minorities, and part-time enrollees, as well as a significant increase in the percentage of students enrolled in partial or full developmental studies (DVS) classes during their first term; (3) the one-year retention rate of black students in the 1990 cohort increased by 9.2% over that of the 1988 cohort, while the two-year retention rate of black students in the 1989 cohort increased by 2.9% over that of the 1988 group; (4) retention among females increased from 51% for the fall 1988 cohort to 60.4% for the fall 1990 cohort, while male student retention increased from 42.5% to 45.8% during the same period; (5) the one-year retention rates of 1990 entering students enrolled in full or partial DVS classes their first term increased by 16.9% and 10.8%, respectively, when compared to their 1988 cohorts; (6) college-wide graduation rates within a two-year period decreased for the 1989 cohort when compared with the 1988 cohort; and (7) the first-year grade point averages of retained students rose steadily over the three years examined. The report provides detailed tables and graphs, as well as an appendix containing an aggregate retention report by program. (JMC)

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RETENTION REPORT FOR

FIRST-TIME ENTERING STUDENTS

TO MIDLANDS TECHNICAL COLLEGE

1988-1991

REPORT II

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MAY 1992

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EXECUTIVE SUMMARY

- Freshman to sophomore retention data on the Fall 1990 entering student cohort showed a 53.8 percent retention rate, a 6.4 percent increase over the retention rate of 47.4 percent for the Fall 1988 group and is slightly higher than the 52.2 percent freshman to sophomore retention rate for public two-year colleges reported in the 1990 ACT College Data File.

- The composition of the entering student cohort has shown slight increases in the percentages of males, non-minorities and part-time enrollees as well as a strong increase in the percentage of students in partial or full Developmental Studies (DVS) classes during the first term. The percentage of students enrolled in full or partial DVS increased 8.4 percent to comprise 44.3 percent of the entering student cohort, and the percentage of students enrolled in full curriculum declined 8.4 percent to represent 55.7 percent of the entering student group.

- The retention rate of black students has increased, particularly for black females. A 9.2 percent increase in one year retention was noted for the 1990 cohort over the 1988 cohort and a 2.9 percent increase in two-year retention for the 1989 cohort over the 1988 cohort. Over the first year, black and "other" males continue to be high risk groups in terms of retention and are candidates for more study. Males in the "other" category display extremely low retention levels at all tracking intervals.

- Comparisons of male and female retention rates indicate that females have significantly higher retention rates than males, with retention increasing at a higher rate for females than for males. Retention among females increased from 51.0 percent for the Fall 1988 cohort to 60.4 percent for the Fall 1990 cohort, an increase of 9.4 percent. Male student retention increased from 42.5 percent to 45.8 percent during the same period.

- Significant increases have been noted in the one-year retention rates of 1990 entering students enrolled in full (16.9 percent) or partial (10.8 percent) DVS classes their first term of enrollment, when compared to their 1988 cohorts. Smaller increases of 4.4 percent (full DVS) and 4.3 percent (partial DVS) were noted when the 1988 and 1989 cohorts were tracked over two years.

- College-wide graduation rates within a two-year period decreased for the 1989 cohort, when compared with the 1988 cohort. Over a three-year period, approximately 45 percent of the Fall 1988 first-time entering students continuing their education in Fall 1991 had completed their respective program requirements for graduation. It appears that Midlands Technical College is in line with the national trend of students taking three to five years to complete a two-year associate degree, depending on the student's enrollment status and the amount of academic preparedness required at entry.

- The first year GPA's of retained students have steadily risen over the past three years when comparing entering student cohorts.

RETENTION REPORT FOR FIRST-TIME ENTERING STUDENTS TO MIDLANDS TECHNICAL COLLEGE

"Student Satisfaction and Retention" is one of the six critical success factors used to evaluate the overall effectiveness of Midlands Technical College. Initial findings revealed a freshman to sophomore retention rate of 47.4 percent for the Fall 1988 entering student cohort continuing their education to the Fall 1989 term. Identifying entering student attrition as a problem, the college has focused efforts on student success and retention.

To support these efforts, the college obtained Title III funding in 1989 to began the implementation of a "Student Success System" and a comprehensive student tracking and retention reporting system. This system and series of reports has been designed to give information to college program managers for use in improving college programs and services as well as ultimately enhance students' success in obtaining their educational goals. This report provides updated information concerning the retention rates of students that the college began tracking in Fall 1988.

METHODOLOGY

Retention data focus only on first-time entering students to the college and reports are designed to facilitate the tracking of individual students within a cohort group for each term. Entering students are grouped into three categories based on their entry requirements: (1) students taking only developmental courses; (2) students taking a combination of developmental and college-level curriculum courses; and (3) students taking only college-level curriculum courses. Retention reports allow the review of student attrition during and between terms. These reports also have the capability of tracking a cohort of students over multiple enrollment periods. For example, the progress of Fall 1988 first-time entering students can be followed through their enrollment in Fall 1989 or longer.

Two types of reports have been developed. The first allows the retrieval of individual student data based upon the student's changing goals. Student goal information is updated each term during the student's registration process. The second, an aggregate report, provides student retention information for the entire college population and for each academic program. Included in the aggregate report is student data grouped by the three categories mentioned earlier (DVS, DVS/Curriculum and Curriculum). This report also provides race, sex, age and GPA data as well as information by campus, for full-time/part-time students and breakdowns by attendance of day/evening classes. Due to outdated advisement forms and inconsistent student use of goal information, information within this report will address only aggregate data; no breakdowns by goal will be provided.

IDENTIFICATION OF COHORT GROUPS

The chart below provides the basic demographic information for each cohort. First-time entering students to Midlands Technical College for the Fall 1988, 1989 and 1990 terms have been identified.

	Fall 1988		Fall 1989		Fall 1990	
Total in Cohort	1978		2006		2095	
Average Age	23		23		23	
	No.	**Percent**	**No.**	**Percent**	**No.**	**Percent**
Sex						
Male	807	40.8%	831	41.4%	890	42.5%
Female	1171	59.2%	1175	58.6%	1205	57.5%
Race						
Black	553	28.0%	518	25.8%	503	24.0%
White	1308	66.1%	1359	67.8%	1470	70.2%
Other	117	5.9%	129	6.4%	122	5.8%
DVS/Curr. at Entry						
DVS Only	143	7.2%	221	11.0%	301	14.4%
DVS/Curr. Combined	568	28.7%	563	28.1%	626	29.9%
Curriculum Only	1267	64.1%	1222	60.9%	1168	55.7%
FT/PT Status						
Full-Time	1223	61.8%	1187	59.2%	1218	58.1%
Part-Time	755	38.2%	819	40.8%	877	41.9%
Day/Night Status						
Day	1320	66.7%	1364	68.0%	1326	63.3%
Night	436	22.1%	356	17.7%	432	20.6%
Both	222	11.2%	286	14.3%	337	16.1%
Campus						
Airport	701	35.4%	870	43.4%	896	42.8%
Beltline	1174	59.4%	1035	51.6%	1040	49.6%
Both	42	2.1%	60	3.0%	121	5.8%
Other	61	3.1%	41	2.0%	38	1.8%

From Fall 1988 to Fall 1990, the percentage of first-time entering students who possessed the skills required to enroll in college-level curriculum courses declined from 64 percent to approximately 56 percent. Simultaneously, the numbers of students being initially advised to enroll in only developmental study courses increased from 7.2 percent to 14.4 percent. By Fall 1990, the combination of the Developmental Studies (DVS) Only and DVS/Curriculum categories represent 45 percent of the first-time entering student population, compared to 35 percent in Fall 1988. The number of students advised to take only DVS courses has increased over 100 percent since Fall 1988.

FRESHMAN TO SOPHOMORE RETENTION RATES

Freshman to sophomore retention data on the Fall 1990 entering student cohort indicate a 53.8 percent retention rate. This is a 1.5 percent increase over the 52.3 percent rate for the Fall 1989 cohort continuing to Fall 1990 and a 6.4 percent increase over the 47.4 percent freshman to sophomore retention rate was revealed for the Fall 1988 cohort tracked to the Fall 1989 term.

Further analysis by student characteristic variables show significant increases in student retention for the Fall 1990 cohort when compared to the Fall 1988 and 1989 cohorts. Overall, comparisons of males and females indicate that females have a higher retention rate than males and that the female retention rate is increasing at a faster rate than their male counterparts. The rate for females increased from 51.0 to 58.8 to 60.4 percent compared to 42.5 to 44.2 to 45.8 percent for males.

	Percentage of Retained Students Fall 1988 to Fall 1989	Percentage of Retained Students Fall 1989 to Fall 1990	Percentage of Retained Students Fall 1990 to Fall 1991
Total	47.4%	52.3%	53.8%
Sex			
Male	42.5%	44.2%	45.8%
Female	51.0%	58.8%	60.4%
Race			
Black	44.2%	51.4%	53.4%
White	49.0%	53.7%	54.9%
Other	44.2%	38.8%	37.3%
Race/Sex			
Black Male	35.4%	39.2%	37.3%
White Male	44.3%	47.3%	49.2%
Other Male	47.1%	31.3%	22.9%
Black Female	48.7%	59.5%	62.7%
White Female	53.1%	59.0%	60.1%
Other Female	41.9%	53.7%	50.0%
DVS/Curr. at Entry			
DVS Only	41.1%	48.6%	58.0%
DVS/Curr. Combined	50.5%	54.5%	61.3%
Curriculum Only	46.7%	51.9%	49.0%

Freshman to sophomore data, overall, show increasing retention rates among both the black and white populations. A significant increase of 14 percent in the retention of black females was realized over the three years included in the study. The retention of black males, however, has fluctuated from 35.4 percent in Fall 1988 to 39.2 percent in Fall 1989 to 37.3 percent in Fall 1990. Grant monies have been made available and the college will be surveying the minority population, as well as conducting focus group interviews with black male students, to gain additional insight into the factors motivating their decisions about college enrollment. Although

the number of males in the ethnic group "other" is low, it appears that this group is experiencing significant declines in retention and should be addressed through further study.

Statistics show differences in the retention of students by DVS/curriculum course enrollment categories. Students taking a combination of DVS and curriculum courses are retained at a greater rate than students in the other categories. In Fall 1990, 61.3 percent of first-time entering students taking both DVS and curriculum courses were retained to the Fall 1991 term. The retention rate of students taking only DVS courses increased by 16.9 percent, when comparing the Fall 1988 to Fall 1990 cohorts.

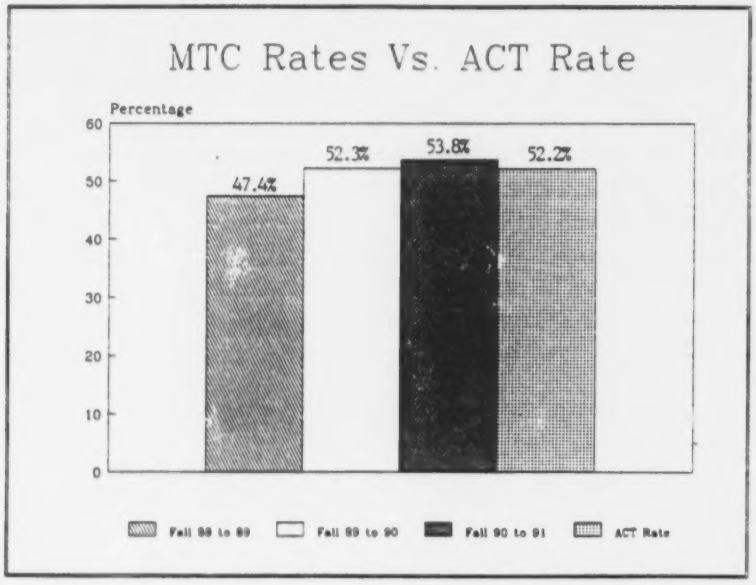
Retained students are defined as those students who continued their studies, changed majors or graduated from their programs of study. The table below indicates approximately 60 percent of the cohorts are comprised of students continuing their program of study from their freshman to sophomore year. Approximately one-third of the students within the cohort changed their academic major. The percentage of the student cohort graduating from MTC is steadily decreasing from Fall to Fall. This is likely due to the growing numbers of part-time students entering the college and the increasing numbers of students requiring developmental coursework, which lengthens program completion time.

	Breakdown of Retained Students Fall 1988 to Fall 1989	**Breakdown of Retained Students Fall 1989 to Fall 1990**	**Breakdown of Retained Students Fall 1990 to Fall 1991**
Continuing Student	58.8%	61.2%	65.9%
Changed Majors	33.4%	32.4%	29.8%
Graduated	7.8%	6.4%	4.3%

Further analysis shows freshman to sophomore retained students' grade point averages have consistently risen over the past three years. The table below shows the averages for the total composite for each Fall as well as breakdowns by male and female students.

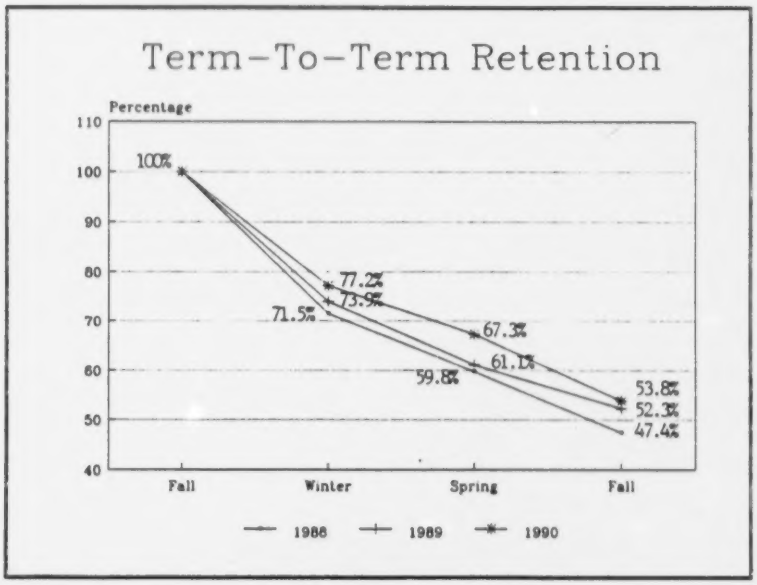
	GPA of Retained Students Fall 1988 to Fall 1989	**GPA of Retained Students Fall 1989 to Fall 1990**	**GPA of Retained Students Fall 1990 to Fall 1991**
Total Composite	2.63	2.68	2.75
Males	2.51	2.60	2.72
Females	2.71	2.74	2.78

The college has exceeded the 52.2 percent freshman to sophomore retention rate for public two-year colleges as reported in the 1991 American College Testing (ACT) College Data File report. The chart on the next page shows MTC's retention rates for the past three Fall term cohorts compared to the national 1991 ACT College File average.



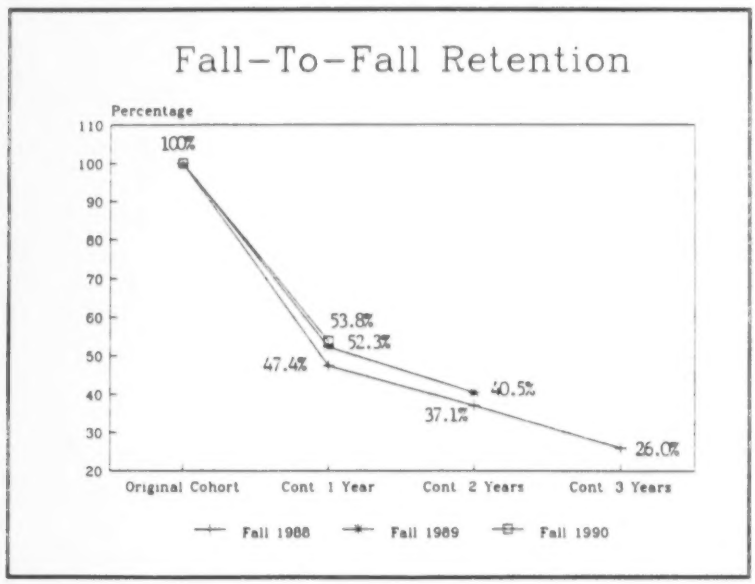
TERM-TO-TERM RETENTION RATE COMPARISONS

The chart below depicts the retention of the three cohort groups from entering Fall term and continuing in the subsequent Winter and Spring terms. A smaller percentage of students in the Fall 1990 entering student cohort are leaving MTC, when compared to the Fall 1988 and Fall 1989 cohorts.



RETENTION TRACKING OVER TWO AND THREE YEAR PERIODS

Midlands Technical College's retention tracking program has the capability to track a cohort of students across two or more academic years. The chart below depicts the retention rates of the three cohort groups that entered during the Fall term and continued in subsequent Fall terms. For the Fall 1989 cohort, data show that 40.5 percent of these students re-enrolled in Fall 1991. This represents an increase from 37.1 percent of the Fall 1988 cohort tracked through Fall 1990. Over a three year period, the Fall 1988 cohort realized a 26 percent retention rate.



On the next page, the table summarizes retention rates by student characteristic variables for three Fall term cohorts. This data show that the retention rates of students for a majority of the variables have increased over this two-year period. As reported earlier, females are retained at higher rates and that those rates are increasing at a faster rate than those of male students. Retention data for the Fall 1989 female cohort tracked to Fall 1991 indicate a 46.5 percent retention rate. This is an increase over the 41 percent rate for females tracked from Fall 1988 through Fall 1990. Over a three year tracking period, 28 percent of the Fall 1988 female cohort and 23.3 percent of the male cohort returned for the Fall 1991 term.

Two-year tracking by race shows retention rates are also increasing among the black and white populations. When comparing the Fall 1988 and Fall 1989 cohorts over a two-year period, the black cohort rate increased by 2.9 percent, from 35.9 to 38.8 percent, and the white cohort rose 4 percent, from 39.1 to 43.1 percent. However, over a three-year period, from Fall 1988 to Fall 1991, there was only a 1.5 percent difference in the retention rates between these two groups.

	Percentage of Retained Students Fall 1988 to Fall 1990 (2 Yrs.)	Percentage of Retained Students Fall 1989 to Fall 1991 (2 Yrs.)	Percentage of Retained Students Fall 1988 to Fall 1991 (3 Yrs.)
Total	37.1%	40.5%	26.0%
Sex			
Male	31.9%	33.0%	23.3%
Female	41.0%	46.5%	28.0%
Race			
Black	35.9%	38.8%	25.7%
White	39.1%	43.1%	27.2%
Other	18.6%	13.8%	10.5%
Race/Sex			
Black Male	29.4%	29.4%	24.9%
White Male	33.7%	36.5%	23.6%
Other Male	17.1%	9.1%	11.9%
Black Female	39.2%	44.8%	26.2%
White Female	43.8%	48.7%	30.5%
Other Female	19.6%	20.5%	9.4%
DVS/Curr. at Entry			
DVS Only	31.2%	35.6%	21.6%
DVS/Curr. Combined	40.4%	44.7%	27.0%
Curriculum Only	36.4%	39.5%	26.0%

Earlier in this report, studies of the race by sex cohort variable indicated fluctuations in the retention rates over a one-year period of time. This was especially noted in the retention of black male students. Data show, however, when tracked over a two-year period, Fall 1988 and 1989 black male rates remained constant at 29.4 percent while an increase of 2.8 percent occurred in the retention of white males. It is significant to note, when the Fall 1988 cohort is tracked to Fall 1991, the white male retention rate dropped to 23.6 percent and the black male rate dropped only 4.5 percent, to 24.9 percent, over the three years. Both the black and white female groups experienced slight increases in retention rates when comparing cohorts returning two years later. However, a 26.2 percent retention rate was recorded when the Fall 1988 black female cohort was followed through Fall 1991.

Data by DVS/curriculum course enrollment requirements at entry still verify that students taking a combination of DVS and curriculum courses at the college are retained at a higher retention rate. For the Fall 1989 cohort, studies show that 44.7 percent of these students returned in Fall 1991. This is an increase over the Fall 1988 to Fall 1990 cohort, which produced a 40.4 percent retention rate. Following the Fall 1988 cohort through Fall 1991, statistics reveal a 27 percent retention rate over a three-year period.

The following chart focuses on the graduation rates of the three cohort groups over two and three academic years. Statistics show that the percentage of the student cohort graduating from MTC over a two-year tracking period has declined. Approximately 33.4 percent of the Fall 1988 first-time entering students who continued their education to Fall 1990 had completed their respective program graduation requirements, compared to 27.1 percent of the Fall 1989 cohort over a two-year period. Over a three-year period, an additional 11.6 percent of the Fall 1988 cohort graduated, thus increasing the graduation rate from 33.4 percent to 45 percent. Given the increasing numbers of part-time students, a three to five-year timeframe for completing program degree requirements is realistic.

	Two-Year Graduation Rates		Three-Year Graduation Rate
	Percent of Retained Students Graduating		Percent of Retained Students
	Between Fall 1988 and Fall 1990	Between Fall 1989 and Fall 1991	Graduating Between Fall 1988 and Fall 1991
Cohort Percentage	33.4%	27.1%	45.0%

PROGRAM RETENTION RATES

Freshman to sophomore retention rates by program are included in the attached appendix. These programs are distributed by appropriate divisions and retention rates for the Fall 1988, 1989 and 1990 cohorts are given as well as cross-tabbed by race/sex variables. Divisional retention rates are not available. Again, report recipients should be reminded that this report addresses only first-time entering students to Midlands Technical College.

Overall, the Allied Health and Nursing programs have experienced high retention rates. However, it should be noted that the following information refers to entering students who began their enrollment in an Allied Health and Nursing program and does not include students who began a program after transferring from another major, such as Associate in Science students taking preparatory courses. Analysis of freshman to sophomore rates in Fall 1988 show the Dental Hygiene program with a 90.9 percent retention rate. In the Fall 1990 cohort, the program retained 100 percent of its students. Medical Laboratory students for this same time period realized an increase from 54.5 percent for its Fall 1988 cohort to 62.5 percent for the Fall 1990 cohort. However, the Dental Assisting program dropped from a 87.5 percent retention rate in the Fall 1989 cohort to 33.3 percent for the Fall 1990 composite.

Several programs within the Arts and Science division project differences in the retention of students. Statistics show the Criminal Justice program consistently increasing its retention from 32.8 percent in Fall 1988, to 48.4 percent in the Fall 1989 cohort to 52.1 percent retention in Fall 1990. The Legal Assistant program dropped slightly between the Fall 1989 cohort and Fall 1990, decreasing from 64.3 percent to 58.2 percent. The Fall 1990 cohorts for the Associate in Arts and Associate in Science programs were retained at an approximately 40 percent rate.

Since higher education in South Carolina does not have a system to track transfer students, retention rates of students in these programs may be in actuality higher than the rates calculated in this report.

The Business and Computer Information Systems division had three programs within the Fall 1990 cohort which attained greater than 50 percent retention rates: Marketing, Office Systems Technology, and Court Reporting. The Telecommunications program reached a 72.7 percent retention rate within the Fall 1989 cohort, only to decline to 37.5 percent within the Fall 1990 cohort. However, the Banking and Finance program realized a tremendous increase in its retention of students over these two years, rising from 27.3 percent in Fall 1989 to 47.1 percent in the cohort for Fall 1990.

The majority of the Industrial and Engineering Technology division's programs reached a greater than 50 percent retention rate for their Fall 1990 cohorts. Statistics indicate an increase in the Electronics Engineering Technology program for the Fall 1989 cohort (at a 33.3 percent rate) to the Fall 1990 cohort, rising to 52.9 percent. Over the three-year study, the Heating, Ventilation and Air Conditioning program has experienced significant retention of its students. The Fall 1988 cohort produced a 52.4 percent rate; the Fall 1989, a 50 percent rate; and the Fall 1990, a 64.5 percent retention of its students.

APPENDIX

AGGREGATE RETENTION REPORT BY PROGRAM
FIRST-TIME ENTERING STUDENTS TO
MIDLANDS TECHNICAL COLLEGE

RESEARCH AND ANALYSIS OFFICE

MAY 1992

Aggregate Retention Report By Program
First-Time Entering Students to MTC
Entering Fall 1988 and Continuing to Fall 1989

Division/Program	Total in Cohort	Total % Retained	Retention Rates By Sex		Retention Rates By Race			Retention Rates By Race & Sex					
			Males	Females	White	Black	Other	WF	WM	BF	BM	OF	OM
Allied Hlth. & Nursing													
Dental Assisting	5	60.0%	--	60.0%	75.0%	0.0%	--	75.0%	--	0.0%	--	--	--
Dental Hygiene	11	90.9%	--	90.9%	90.9%	--	--	90.9%	--	--	--	--	--
Medical Lab. Tech.	11	54.5%	75.0%	42.9%	40.0%	66.7%	66.7%	33.3%	50.0%	66.7%	--	0.0%	100.0%
Hlth. Info. Mgmt. (MRT)	8	75.0%	100.0%	71.4%	83.3%	50.0%	--	80.0%	100.0%	50.0%	--	--	--
Medical Transcribing	5	20.0%	--	20.0%	33.3%	0.0%	0.0%	33.3%	--	0.0%	--	0.0%	--
Nuclear Medicine	5	100.0%	100.0%	100.0%	100.0%	100.0%	--	100.0%	100.0%	100.0%	100.0%	--	--
Nursing (ADN)	11	72.7%	100.0%	70.0%	87.5%	0.0%	100.0%	85.7%	100.0%	0.0%	--	100.0%	--
Nursing (LPN)	24	66.7%	100.0%	63.6%	76.9%	54.5%	--	75.0%	100.0%	50.0%	100.0%	--	--
Pharmacy Tech.	5	80.0%	--	80.0%	100.0%	--	0.0%	100.0%	--	--	--	0.0%	--
Radiologic Tech.	1	100.0%	100.0%	--	100.0%	--	--	--	100.0%	--	--	--	--
Respiratory Therapy	13	92.3%	100.0%	88.9%	100.0%	75.0%	--	100.0%	100.0%	66.7	100.0%	--	--
Surgical Tech.	1	0.0%	--	0.0%	0.0%	--	--	0.0%	--	--	--	--	--
Physical Therapy	--	--	--	--	--	--	--	--	--	--	--	--	--
AA - AH Prep	3	33.3%	--	33.3%	50.0%	0.0%	--	50.0%	--	0.0%	--	--	--
AA/AS - AH Minor*	216	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Arts and Science													
Associate in Arts	351	37.3%	33.7%	41.5%	41.2%	19.6%	30.3%	47.2%	36.1%	21.7%	17.4%	25.0%	35.3%
Associate in Science	116	39.7%	27.9%	46.6%	39.2%	40.5%	40.0%	45.2%	31.3%	46.4%	22.2%	66.7%	0.0%
Human Services	39	43.6%	20.0%	47.1%	57.1%	27.8%	--	60.0%	0.0%	28.6%	25.0%	--	--
Criminal Justice	64	32.8%	30.6%	35.7%	37.2%	31.3%	0.0%	38.1%	36.4%	33.3%	30.0%	0.0%	0.0%
Legal Assistant	54	53.7%	66.7%	52.9%	55.3%	50.0%	--	55.6%	50.0%	46.7%	100.0%	--	--
Business & CIS													
Accounting	112	48.2%	46.7%	48.8%	44.4%	51.2%	66.7%	42.2%	50.0%	57.6%	30.0%	50.0%	100.0%
Banking & Finance	23	30.4%	27.3%	33.3%	36.4%	30.0%	0.0%	20.0%	50.0%	42.9%	0.0%	--	0.0%
Computer Tech.	149	34.9%	35.2%	34.7%	33.3%	36.2%	40.0%	31.1%	36.1%	39.5%	26.7%	28.6%	66.7%
Management	166	57.2%	58.1%	56.7%	56.4%	55.6%	69.2%	58.2%	54.0%	50.0%	75.0%	66.7%	75.0%
Marketing	28	32.1%	16.7%	43.8%	33.3%	33.3%	0.0%	41.7%	16.7%	66.7%	16.7%	0.0%	--
Office Systems Tech.	86	37.2%	--	37.2%	41.5%	36.6%	0.0%	41.5%	--	36.6%	--	0.0%	--
Court Reporting	15	53.3%	50.0%	53.8%	46.2%	100.0%	--	45.5%	50.0%	100.0%	--	--	--
Telecommunications	16	31.3%	25.0%	37.5%	25.0%	37.5%	--	40.0%	0.0%	33.3%	40.0%	--	--
Comm. Network Mgmt.	--	--	--	--	--	--	--	--	--	--	--	--	--

*NOTE: AA/AS - AH Minor students not returning the next term were not counted as attrition to the program since students may be in a holding pattern until they are able to continue their studies within their desired program.

Midlands Technical College
Research and Analysis Office

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Aggregate Retention Report By Program
First-Time Entering Students to MTC
Entering Fall 1988 and Continuing to Fall 1989

Division/Program	Total in Cohort	Total % Retained	Retention Rates By Sex		Retention Rates By Race			Retention Rates By Race & Sex					
			Males	Females	White	Black	Other	WF	WM	BF	BM	OF	OM
Industrial & Eng. Tech.													
Engineering Tech.													
Architectural Engr.	32	37.5%	45.8%	12.5%	42.9%	27.3%	--	20.0%	50.0%	0.0%	37.5%	--	--
Civil Engr. Tech.	25	64.0%	61.9%	75.0%	60.9%	100.0%	100.0%	66.7%	60.0%	100.0%	--	--	100.0%
Electronics Engr. Tech.	71	39.4%	36.4%	80.0%	35.6%	47.8%	33.3%	50.0%	34.9%	100.0%	40.0%	--	33.3%
Electronics Tech.	44	38.6%	35.1%	57.1%	50.0%	25.0%	25.0%	50.0%	50.0%	75.0%	8.3%	0.0%	33.3%
Industrial Electricity	14	57.1%	57.1%	--	50.0%	66.7%	--	--	50.0%	--	66.7%	--	--
Eng. Graphics Tech.	19	47.4%	50.0%	40.0%	58.3%	16.7%	100.0%	50.0%	60.0%	0.0%	25.0%	100.0%	--
Mech. Engr. Tech.	14	57.1%	57.1%	--	60.0%	100.0%	33.3%	--	60.0%	--	100.0%	--	33.3%
General Technology	12	50.0%	50.0%	50.0%	57.1%	25.0%	100.0%	--	57.1%	50.0%	0.0%	--	100.0%
Engineering Prep	--	--	--	--	--	--	--	--	--	--	--	--	--
Industrial Tech.													
Commercial Graphics	15	46.7%	60.0%	40.0%	42.9%	100.0%	--	33.3%	60.0%	100.0%	--	--	--
HVAC	21	52.4%	50.0%	100.0%	50.0%	66.7%	--	--	50.0%	100.0%	50.0%	--	--
Machine Tool Tech.	18	55.6%	52.9%	100.0%	54.5%	40.0%	100.0%	--	54.5%	100.0%	25.0%	--	100.0%
Automotive Tech.	20	40.0%	42.1%	0.0%	40.0%	--	--	0.0%	42.1%	--	--	--	--
Diesel Equip. Mech.	4	0.0%	0.0%	--	0.0%	0.0%	--	--	0.0%	--	0.0%	--	--
Other (Car. Dev./Etc.)													
Basic Studies/GED	--	--	--	--	--	--	--	--	--	--	--	--	--
Career Dev. (All Tech.)	18	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	--	100.0%	100.0%	100.0%
Career Undecided	112	33.9%	40.9%	29.4%	32.9%	37.9%	25.0%	27.3%	40.0%	35.0%	44.4%	25.0%	--
Voc. Tech. Education	1	0.0%	0.0%	--	--	0.0%	--	--	--	--	0.0%	--	--
TOTAL COLLEGE	**1,978**	**47.4%**	**42.5%**	**51.0%**	**49.0%**	**44.2%**	**44.2%**	**53.1%**	**44.3%**	**48.7%**	**35.4%**	**41.9%**	**47.1%**

Aggregate Retention Report By Program
First-Time Entering Students to MTC
Entering Fall 1989 and Continuing to Fall 1990

Division/Program	Total in Cohort	Total % Retained	Retention Rates By Sex		Retention Rates By Race			Retention Rates By Race & Sex					
			Males	Females	White	Black	Other	WF	WM	BF	BM	OF	OM
Allied Hlth. & Nursing													
Dental Assisting	8	87.5%	--	87.5%	85.7%	--	100.0%	85.7%	--	--	--	100.0%	--
Dental Hygiene	5	80.0%	--	80.0%	80.0%	--	--	80.0%	--	--	--	--	--
Medical Lab. Tech.	8	62.5%	66.7%	60.0%	50.0%	66.7%	100.0%	33.3%	100.0%	100.0%	50.0%	100.0%	--
Hlth. Info. Mgmt. (MRT)	8	87.5%	100.0%	85.7%	85.7%	100.0%	--	83.3%	100.0%	100.0%	--	--	--
Medical Transcribing	--	--	--	--	--	--	--	--	--	--	--	--	--
Nuclear Medicine	1	100.0%	--	100.0%	100.0%	--	--	100.0%	--	--	--	--	--
Nursing (ADN)	4	100.0%	100.0%	100.0%	100.0%	100.0%	--	100.0%	--	100.0%	100.0%	--	--
Nursing (LPN)	9	66.7%	100.0%	62.5%	66.7%	100.0%	0.0%	60.0%	100.0%	100.0%	--	0.0%	--
Pharmacy Tech.	4	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	--	100.0%	100.0%	100.0%	--
Radiologic Tech.	--	--	--	--	--	--	--	--	--	--	--	--	--
Respiratory Therapy	7	85.7%	--	85.7%	80.0%	--	100.0%	80.0%	--	--	--	100.0%	--
Surgical Tech.	--	--	--	--	--	--	--	--	--	--	--	--	--
Physical Therapy	--	--	--	--	--	--	--	--	--	--	--	--	--
AA - AH Prep	1	100.0%	--	100.0%	--	100.0%	--	100.0%	--	--	--	--	--
AA/AS - AH Minor*	404	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Arts and Science													
Associate in Arts	319	39.8%	39.1%	40.5%	42.1%	26.1%	42.8%	41.6%	42.5%	30.0%	23.0%	50.0%	40.0%
Associate in Science	93	40.9%	37.0%	44.7%	40.0%	53.3%	25.0%	38.2%	41.7%	66.7%	33.3%	50.0%	0.0%
Human Services	44	40.9%	12.5%	47.2%	38.5%	35.7%	75.0%	43.4%	0.0%	40.0%	25.0%	100.0%	0.0%
Criminal Justice	66	48.4%	48.5%	48.3%	48.9%	43.7%	60.0%	52.6%	46.2%	45.5%	40.0%	0.0%	75.0%
Legal Assistant	56	64.3%	60.0%	64.7%	64.3%	69.2%	0.0%	63.1%	75.0%	75.0%	0.0%	0.0%	--
Business & CIS													
Accounting	128	46.1%	39.4%	48.4%	49.4%	42.4%	25.0%	50.0%	47.8%	46.2%	28.6%	40.0%	0.0%
Banking & Finance	22	27.3%	40.0%	16.6%	31.3%	16.7%	--	14.2%	44.4%	20.0%	0.0%	--	--
Computer Tech.	143	43.4%	43.8%	42.9%	47.7%	40.4%	12.5%	46.2%	49.0%	42.9%	36.8%	0.0%	20.0%
Management	136	44.1%	42.6%	45.6%	47.8%	40.0%	27.3%	46.5%	48.9%	47.6%	28.6%	25.0%	28.6%
Marketing	45	51.1%	52.9%	50.0%	50.0%	54.6%	50.0%	50.0%	50.0%	50.0%	60.0%	50.0%	--
Office Systems Tech.	72	51.4%	--	51.4%	69.7%	39.4%	16.7%	69.7%	--	39.4%	--	16.7%	--
Court Reporting	11	63.6%	50.0%	66.6%	75.0%	33.3%	--	71.4%	100.0%	50.0%	0.0%	--	--
Telecommunications	11	72.7%	71.4%	75.0%	80.0%	60.0%	100.0%	50.0%	100.0%	100.0%	33.3%	--	100.0%
Comm. Network Mgmt.	1	0.0%	--	0.0%	0.0%	--	--	0.0%	--	--	--	--	--

*NOTE: AA/AS - AH Minor students not returning the next term were not counted as attrition to the program since students may be in a holding pattern until they are able to continue their studies within their desired program.

Midlands Technical College
Research and Analysis Office

Aggregate Retention Report By Program
First-Time Entering Students to MTC
Entering Fall 1989 and Continuing to Fall 1990

Division/Program	Total in Cohort	Total % Retained	Retention Rates By Sex		Retention Rates By Race			Retention Rates By Race & Sex					
			Males	Females	White	Black	Other	WF	WM	BF	BM	OF	OM
Industrial & Eng. Tech.													
Engineering Tech.													
Architectural Engr.	29	34.5%	39.1%	16.6%	31.8%	50.0%	0.0%	0.0%	38.9%	100.0%	40.0%	0.0%	--
Civil Engr. Tech.	12	58.3%	66.7%	33.3%	66.7%	100.0%	0.0%	0.0%	75.0%	100.0%	--	0.0%	0.0%
Electronics Engr. Tech.	60	33.3%	33.3%	33.3%	34.3%	33.3%	28.6%	0.0%	35.3%	50.0%	31.3%	--	28.6%
Electronics Tech.	30	40.0%	40.7%	33.3%	46.7%	27.3%	50.0%	--	46.7%	33.3%	25.0%	--	50.0%
Industrial Electricity	18	27.8%	29.4%	0.0%	27.3%	40.0%	0.0%	0.0%	30.0%	--	40.0%	--	0.0%
Eng. Graphics Tech.	23	39.1%	45.0%	0.0%	38.9%	50.0%	0.0%	0.0%	46.7%	--	50.0%	--	0.0%
Mech. Engr. Tech.	13	69.2%	75.0%	0.0%	70.0%	66.7%	--	0.0%	77.8%	--	66.7%	--	--
General Technology	7	28.6%	33.3%	0.0%	25.0%	33.3%	--	--	25.0%	0.0%	50.0%	--	--
Engineering Prep	12	41.7%	36.4%	100.0%	36.4%	100.0%	--	100.0%	30.0%	--	100.0%	--	--
Industrial Tech.													
Commercial Graphics	27	51.9%	52.9%	50.0%	40.0%	80.0%	100.0%	37.5%	41.7%	100.0%	75.0%	100.0%	100.0%
HVAC	14	50.0%	46.2%	100.0%	50.0%	--	50.0%	100.0%	45.5%	--	--	--	50.0%
Machine Tool Tech.	31	41.9%	43.3%	0.0%	52.6%	42.9%	0.0%	0.0%	55.6%	--	42.9%	--	0.0%
Automotive Tech.	16	37.5%	40.0%	0.0%	22.2%	66.7%	0.0%	0.0%	25.0%	--	66.7%	--	0.0%
Diesel Equip. Mech.	6	16.7%	16.7%	--	33.3%	0.0%	--	--	33.3%	--	0.0%	--	--
Other (Car. Dev./Etc.)													
Basic Studies/GED	--	--	--	--	--	--	--	--	--	--	--	--	--
Career Dev. (All Tech.)	11	100.0%	100.0%	100.0%	100.0%	100.0%	--	--	100.0%	100.0%	100.0%	--	--
Career Undecided	91	48.4%	45.1%	52.5%	52.9%	36.4%	0.0%	55.2%	51.3%	45.5%	27.3%	--	0.0%
Voc. Tech. Education	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL COLLEGE	**2006**	**52.3%**	**44.2%**	**58.8%**	**53.7%**	**51.4%**	**41.3%**	**59.0%**	**47.3%**	**59.5%**	**39.2%**	**53.7%**	**31.3%**

Aggregate Retention Report By Program
First-Time Entering Students to MTC
Entering Fall 1990 and Continuing to Fall 1991

Division/Program	Total in Cohort	Total % Retained	Retention Rates By Sex		Retention Rates By Race			Retention Rates By Race & Sex					
			Males	Females	White	Black	Other	WF	WM	BF	BM	OF	OM
Allied Hlth. & Nursing													
Dental Assisting	6	33.3%	--	33.3%	20.0%	100.0%	--	20.0%	--	100.0%	--	--	--
Dental Hygiene	5	100.0%	--	100.0%	100.0%	--	--	100.0%	--	--	--	--	--
Medical Lab. Tech.	8	62.5%	100.0%	57.1%	100.0%	33.3%	0.0%	100.0%	--	0.0%	100.0%	0.0%	--
Hlth. Info. Mgmt. (MRT)	3	66.7%	--	66,7%	66.7%	--	--	66.7%	--	--	--	--	--
Medical Transcribing	--	--	--	--	--	--	--	--	--	--	--	--	
Nuclear Medicine	3	100.0%	--	100.0%	100.0%	--	--	100.0%	--	--	--	--	--
Nursing (ADN)	4	75.0%	--	75.0%	50.0%	100.0%	--	50.0%	--	100.0%	--	--	--
Nursing (LPN)	3	33.3%	33.3%	--	50.0%	0.0%	--	--	50.0%	--	0.0%	--	--
Pharmacy Tech.	2	100.0%	100.0%	100.0%	100.0%	--	--	100.0%	100.0%	--	--	--	--
Radiologic Tech.	--	--	--	--	--	--	--	--	--	--	--	--	--
Respiratory Therapy	4	25.0%	0.0%	33.3%	25.0%	--	--	33.3%	0.0%	--	--	--	--
Surgical Tech.	--	--	--	--	--	--	--	--	--	--	--	--	--
Physical Therapy	--	--	--	--	--	--	--	--	--	--	--	--	--
AA - AH Prep	--	--	--	--	--	--	--	--	--	--	--	--	--
AA/AS - AH Minor*	433	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	--
Arts and Science													
Associate in Arts	314	43.6%	42.2%	45.0%	47.0%	28.3%	33.3%	46.5%	47.6%	33.3%	22.7%	57.1%	12.5%
Associate in Science	129	38.0%	30.9%	45.9%	38.1%	42.9%	30.0%	44.4%	33.3%	54.5%	0.0%	40.0%	20.0%
Human Services	43	32.6%	14.3%	36.1%	30.4%	36.8%	0.0%	30.0%	33.3%	46.7%	0.0%	0.0%	--
Criminal Justice	71	52.1%	55.1%	45.6%	60.7%	23.1%	0.0%	50.0%	65.0%	33.3%	14.3%	--	0.0%
Legal Assistant	55	58.2%	25.0%	60.8%	61.9%	50.0%	33.3%	64.1%	33.3%	55.6%	0.0%	33.3%	--
Business & CIS													
Accounting	118	39.0%	32.4%	41.7%	36.4%	42.2%	42.9%	39.1%	28.6%	47.1%	27.3%	20.0%	100.0%
Banking & Finance	17	47.1%	66.7%	42.9%	50.0%	42.9%	--	37.5%	100.0%	50.0%	0.0%	--	--
Computer Tech.	161	46.0%	34.2%	55.7%	46.6%	44.9%	44.4%	53.1%	40.7%	57..1%	14.3%	75.0%	20.0%
Management	146	41.1%	36.9%	50.6%	46.6%	43.2%	16.7%	51.9%	40.8%	52.2%	28.6%	25.0%	0.0%
Marketing	39	53.9%	50.0%	57.1%	55.6%	54.6%	0.0%	57.1%	53.8%	57.1%	50.0%	--	0.0%
Office Systems Tech.	47	61.7%	--	61.7%	55.0%	64.0%	100.0%	55.0%	--	64.0%	--	100.0%	--
Court Reporting	17	76.5%	--	76.5%	78.6%	100.0%	0.0%	78.6%	--	100.0%	--	0.0%	--
Telecommunications	16	37.5%	28.6%	44.4%	25.0%	50.0%	--	40.0%	0.0%	50.0%	50.0%	--	--
Comm. Network Mgmt.	1	0.0%	0.0%	--	0.0%	--	--	--	0.0%	--	--	--	--

*NOTE: AA/AS - AH Minor students not returning the next term were not counted as attrition to the program since students may be in a holding pattern until they are able to continue their studies within their desired program.

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			Males	Females	White	Black	Other	WF	WM	BF	BM	OF	OM
Industrial & Eng. Tech.													
Engineering Tech.													
Architectural Engr.	32	53.1%	48.3%	100.0%	57.1%	25.0%	--	100.0%	52.0%	--	25.0%	--	--
Civil Engr. Tech.	14	57.1%	61.5%	0.0%	58.3%	50.0%	--	0.0%	63.6%	--	50.0%	--	--
Electronics Engr. Tech.	51	52.9%	55.3%	25.0%	60.6%	43.8%	0.0%	33.3%	63.3%	0.0%	46.7%	--	0.0%
Electronics Tech.	21	31.8%	31.6%	33.3%	33.3%	33.3%	0.0%	33.3%	33.3%	--	33.3%	--	0.0%
Industrial Electricity	22	63.6%	65.0%	50.0%	66.7%	57.1%	--	50.0%	69.2%	--	57.1%	--	--
Eng. Graphics Tech.	31	38.7%	35.7%	66.7%	42.3%	0.0%	100.0%	100.0%	40.0%	0.0%	0.0%	100.0%	--
Mech. Engr. Tech.	13	53.9%	50.0%	100.0%	33.3%	100.0%	100.0%	100.0%	25.0%	--	100.0%	--	100.0%
General Technology	2	0.0%	0.0%	--	0.0%	0.0%	--	--	0.0%	--	0.0%	--	--
Engineering Prep	33	66.7%	64.3%	80.0%	67.9%	60.0%	--	75.0%	66.7%	100.0%	50.0%	--	--
Industrial Tech.													
Commercial Graphics	26	46.2%	43.8%	50.0%	41.2%	55.6%	--	37.5%	44.4%	100.0%	42.9%	--	--
HVAC	31	64.5%	66.7%	0.0%	68.0%	75.0%	0.0%	0.0%	70.8%	--	75.0%	--	0.0%
Machine Tool Tech.	18	50.0%	40.0%	100.0%	69.2%	0.0%	--	100.0%	60.0%	--	0.0%	--	--
Automotive Tech.	16	37.5%	33.3%	100.0%	28.6%	50.0%	0.0%	100.0%	16.7%	--	50.0%	--	0.0%
Diesel Equip. Mech.	--	--	--	--	--	--	--	--	--	--	--	--	--
Other (Car. Dev./Etc.)													
Basic Studies/GED	--	--	--	--	--	--	--	--	--	--	--	--	--
Career Dev. (All Tech.)	9	100.0%	100.0%	--	100.0%	100.0%	--	--	100.0%	--	100.0%	--	--
Career Undecided	131	45.0%	43.1%	46.6%	44.6%	50.0%	33.3%	46.6%	42.3%	50.0%	50.0%	0.0%	50.0%
Voc. Tech. Education	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL COLLEGE	**2095**	**53.8%**	**45.8%**	**60.4%**	**54.9%**	**53.4%**	**37.3%**	**60.1%**	**49.2%**	**62.7%**	**37.3%**	**50.0%**	**22.9%**

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